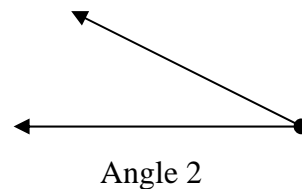
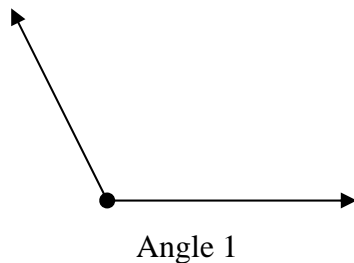


Congruent and Similar Triangle Investigation

Activity Four

1. Copy angle 1 and angle 2 shown below using two different pieces of patty paper. Place these two angles together in your own way to create part of a triangle. Using a third piece of patty paper, trace the angles and extend the sides to create a triangle. Name this $\triangle TUN$.
2. Repeat this process and try to create a second triangle that looks different than $\triangle TUN$. Name this $\triangle WAY$. Is $\triangle TUN$ congruent to $\triangle WAY$? Use mathematics to justify your answer.
3. Is $\triangle WAY$ similar to $\triangle TUN$? Use mathematics to justify your answer.



Answers: The two triangles, $\triangle TUN$ and $\triangle WAY$, are not congruent because they have different side lengths. They are similar, however, by the angle-angle similarity theorem.